

## Claims

- Sub B 1. Vertically joined flooring material comprising floor boards (1) with a mainly square, rectangular, rhomboidal or polygonal shape, as seen from above, which floor boards (1) are provided with edges (2) which are provided with a groove (2'), a lower side (5) and a decorative top surface (3), whereby the floor boards (1) are intended to be joined by means of separate joining profiles (10), characterised in that, all edges (2) are provided with one groove (4) each, which grooves (4) are arranged parallel to its respective edge (2) and that the joining profiles (10) are provided with lips (11) arranged in pairs, which lips (11) each are intended to be received by the groove (4) of a floor board (1) so that adjacent floor boards (1) with the grooves (4) at the adjacent edges (2) is guided and fixed horizontally by the lips (11) of a joining profile (10), which lips (11) are connected to each other by a middle section (12) of the joining profile (10) and that the joining profile (10) is provided with a central cheek section (13) which is comprised by a first and a second independently resilient cheek (13' and 13" respectively) which cheeks (13' and 13" respectively) are provided with one tongue (14' and 14" respectively) each whereby the tongues (14' and 14" respectively) are intended to be received by one groove (2') each so that adjacent floor boards (1) are guided in a vertical direction.
2. Vertically joined flooring material according to claim 1, characterised in that the grooves (4) on the lower side (5) are arranged on distance from the closest edge (2) less than half, preferably less than one quarter of the width of a floor board (1).
3. Vertically joined flooring material according to claim 2, characterised in that the floor boards (1) are provided with a groove (4) at the edges (2) and that the distance between each groove (4) and the closest edge (2) is mainly the same.
4. Vertically joined flooring material according claim 2 or 3, characterised in that the part of the floor board (1) located between each edge and its respective groove (4) is thinner than the maximum thickness of the floor board (1) by means of a recess (6) located on the lower side (5).
- Sub A 5. Vertically joined flooring material according any of the claims 1 - 4, characterised in that, the distance between the lips (11) of the joining profile (10) is somewhat smaller than the distance between the grooves (4) placed on each side of and closest to the edge (2) of two adjacent floor boards (1).

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6. Vertically joined flooring material according any of the claims 1 - 5, characterised in that, the joining profiles (10) are manufactured in long sections which may be cut into a desired length and that the length of the joining profiles (10) exceeds the length of a floor board (1) before being cut.
7. Vertically joined flooring material according any of the claims 1 - 6, characterised in that, the joining profiles (10) and/or the floor boards are partially coated with glue or adhesive tape.
8. Vertically joined flooring material according any of the claims 1 - 7, characterised in that, a decorative strip (20) is intended to be assembled from above in an intentional gap formed between two floor boards (1).
9. Vertically joined flooring material according to claim 8, characterised in that, the decorative strip (20) is provided with heels (21) on its lower part intended to interact with corresponding depressions (15) on the joining profile (10).
10. Vertically joined flooring material according to claim 8 or 9, characterised in that, the decorative strip (20) is provided with shoulders (22) intended to rest against the upper edges (16) of the joining profile (10).

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